



Professional Audio / Video Solutions Provider

Version 1.0

User Manual



eARC and SPDIF Audio Extender
ID: ZT-522 | ZT-EXT-A1

Zenty ®

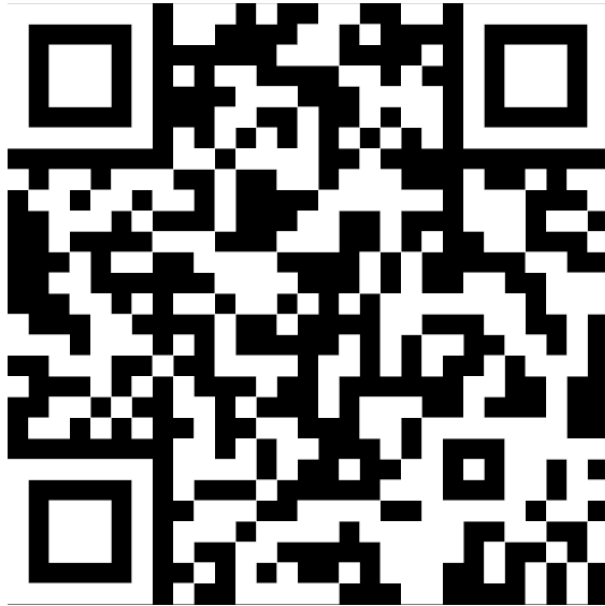
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this unit



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Safety Instructions:

Before using this product, please carefully read the following safety instructions to ensure its proper use and keep this manual for future reference:

- To prevent electric shock, do not attempt to open the product.
- Only qualified personnel should perform any repairs or maintenance.
- Always place the product on a stable, flat surface to prevent it from falling.
- Do not expose the product to water, moisture, or high-humidity environments to avoid the risk of damage.
- To prevent damage from direct sunlight or high temperatures, do not expose the product to such environments.
- Do not place the product near heat sources like radiators, heat registers, stove, or other heat-producing apparatus.
- Do not place any objects on top of the product to avoid damage.
- Use only the attachments and accessories specified by the manufacturer.
- During lightning storms or prolonged periods of disuse, unplug the power supply to prevent damage.

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1. Product Introduction

The product is an audio extender set that includes one Transmitter and one Receiver. It is designed to transmit HDMI eARC / ARC and optical digital audio signals up to a distance of 200m (eARC/ARC signals up to 100m) via CATx cable. It also supports CEC pass-through when HDMI eARC/ARC audio is selected.

2. Package Contents

- 1x Transmitter
- 4x TX Plastic Cushions
- 1x Power Adapter (12VDC, 1A)
- 1x Receiver
- 4x RX Plastic Cushions
- 1x User Manual

3. Features

- Extend either eARC/ARC or optical digital audio signals over a single CAT cable.
- Supports eARC/ARC distribution distances up to 100m.
- Supports optical audio distribution distances up to 200m.
- Supports CEC pass-through when HDMI eARC/ARC mode is selected.
- Bi-directional PoC (Power over Cable)
- Selection between HDMI eARC/ARC or Optical digital audio via dipswitch on the TX

4. Panel Description

Transmitter



1. SPDIF IN: Connect to display for optical audio return.
2. eARC IN: Connect to eARC/ARC port on local HDMI display.
3. SPDIF/eARC: Select between eARC/ARC input port between HDMI or Optical input.
4. FW: USB Upgrade Port.
5. CATx OUT: Cat5e/6 RJ45 Output Port.
6. DC12V: 12V/1A DC power supply.

7. LED: Lights green when power is connected.

Receiver



1. SPDIF OUT: Connect to AVR or processor for optical audio return.
 2. eARC OUT: Connect to AVR or processor audio return channel input.
 3. FW: USB Upgrade Port.
 4. CATx IN: Cat5e/6 RJ45 Input Port
 5. DC12V: 12V/1A DC power supply.
- LED: Lights green when power is connected.

5. Specifications

Transmitter	
Input	SPDIF, eARC IN
Input Connector	Toslink, HDMI
Output	CATx OUT
Output Connector	RJ45
Control	FIRMWARE
Control Connector	Micro USB
Receiver	
Input	CATx IN
Input Connector	RJ45
Output	SPDIF, eARC OUT
Output Connector	Toslink, HDMI
Control	FIRMWARE
Control Connector	(Micro USB

General	
Input Audio Format	eARC: PCM 2.0/5.1/7.1ch, Dolby Digital Plus, DTS, Dolby TrueHD, DTS-HD MA, Dolby Atmos ARC: PCM 2.0ch, Dolby 5.1ch, DTS 5.1ch Optical: PCM 2.0ch, Dolby 5.1ch, DTS 5.1ch
Output Audio Format	eARC: PCM 2.0/5.1/7.1ch, Dolby Digital Plus, DTS, Dolby TrueHD, DTS-HD MA, Dolby Atmos ARC: PCM 2.0ch, Dolby 5.1ch, DTS 5.1ch Optical: PCM 2.0ch, Dolby 5.1ch, DTS 5.1ch
Frequency Response	All audio: 20Hz ~ 20kHz, < ±0.3dB
Sample Rate	SPDIF: 48/96/192 kHz HDMI: 48/96/192 kHz
Transmission Distance	SPDIF: Up to 200m (CATx) eARC: Up to 100m (CATx) Note: Optical fiber transmission supports up to 96kHz sampling rate at 200m, and up to 100m at 192kHz
Power Consumption	2.5W (max)
Operation Temperature	0 ~ +40°C
Storage Temperature	-10 ~ +50°C
Relative Humidity	0% ~ 90%
External Power Supply	12V1A
Dimension (W*H*D)	TX: 80mm x 21mm x 74mm; RX: 80mm x 21mm x 74mm
Net Weight (g)	Transmitter: 150g, Receiver: 150g

6. Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner, or benzene to clean.

7. Warranty

If your product does not work properly because of a defect in materials or workmanship, our company (referred to as “the warrantor”) will, for the length of the period indicated as below, “Parts and Labor (5) Years”, which starts with the date of original purchase (“Limited Warranty period”), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

During the “Labor” limited warranty period, there will be no charge for labor. During the “Parts” warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

8. Mail-In Service

When shipping the unit, carefully pack and send it prepaid, adequately insured, and preferably in the original carton. Include a letter detailing the complaint and provide a daytime phone and/or email address where you can be reached phone and/or email address where you can be reached.

9. Limited Warranty Limits and Exclusions

This Limited Warranty ONLY COVERS failures due to defects in material or workmanship and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by

products not supplied by warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, mis-adjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service center or other Authorized Servicer, or damage that is attributed to acts of God.

There are no express warranties except as listed under “Limited Warranty Coverage”. The warrantor is not liable for incidental or consequential damages resulting from the use of this product or arising out of any breach of this warranty. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the service, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive but are for illustration only). Parts and service, which are not covered by this limited warranty, are your responsibility.



HIGH-DEFINITION MULTIMEDIA INTERFACE

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